STEVAL-ISA032V1

60 W forward converter demonstration board for fiscal cash register based on the L5991 and STP10NK60Z

Data Brief

Features

- Input voltage: V_{IN}: 88 - 265 Vac
  - frequency: 50-60 Hz
- Output voltage: V_{OUT} = 9 V
- Output current: I_{OUT} = 5.5 A (6 A peak)
- Efficiency: >75%
- Safety: EN60950 compliant
- Conducted EMI: EN55022



STEVAL-ISA032V1

Description

The STEVAL- ISA032V1 forward converter demonstration board is a power supply based on the primary controller L5991 and the STP10NK60Z N-channel 600 V power MOSFET. It is designed to be suitable to supply power to the electronic fiscal cash register (EFCR) demonstration board STEVAL-IPC001V1.

The STEVAL- ISA032V1 demonstration board accepts a wide range of input voltage (88 to 265 Vac) and delivers a single 9 V output with a power capability of up to 50 W continuous, and 60 W peak, making it also capable of providing power to a thermal printer.

1 Circuit schematic

Figure 1. Schematic diagram 1/2

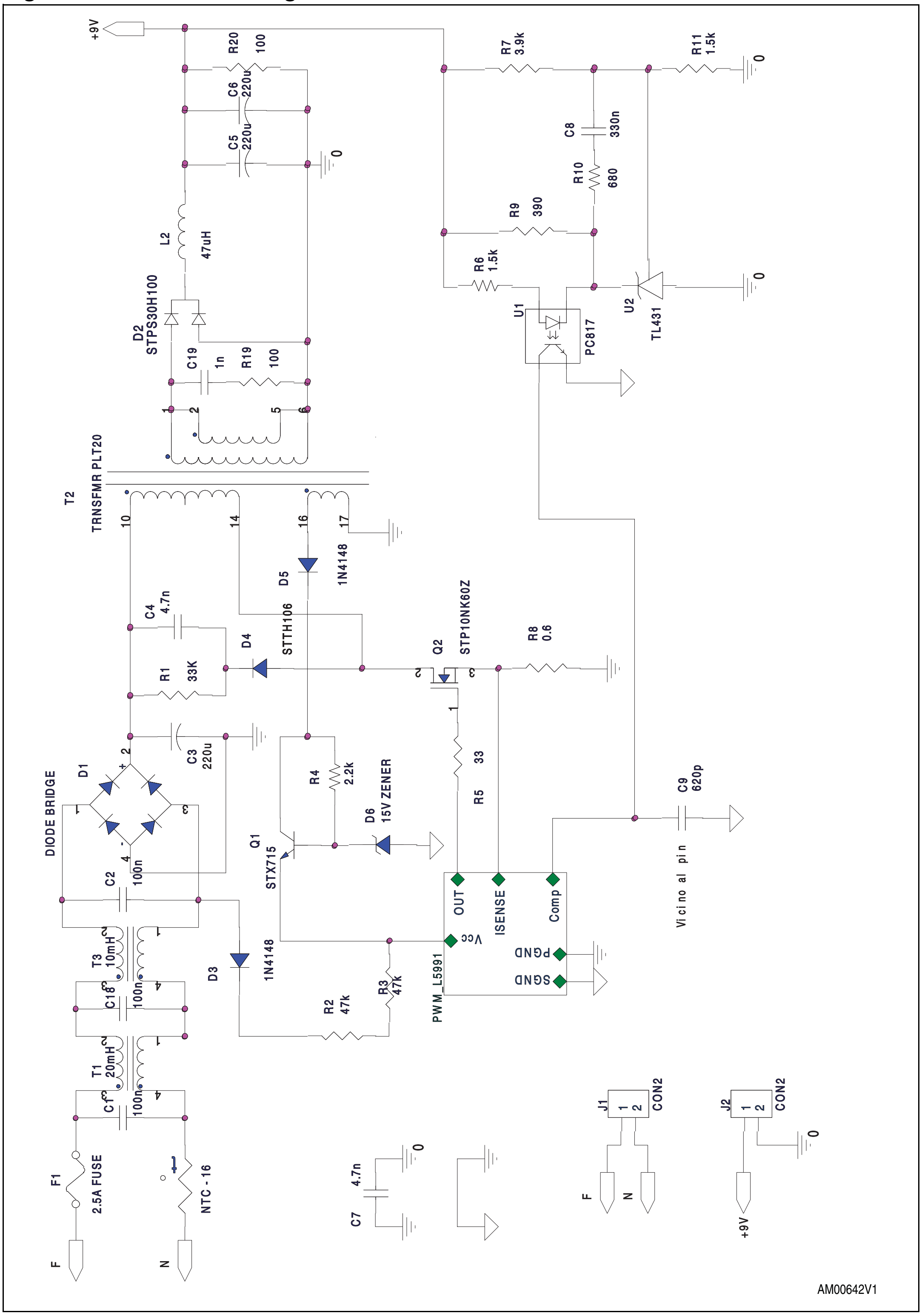
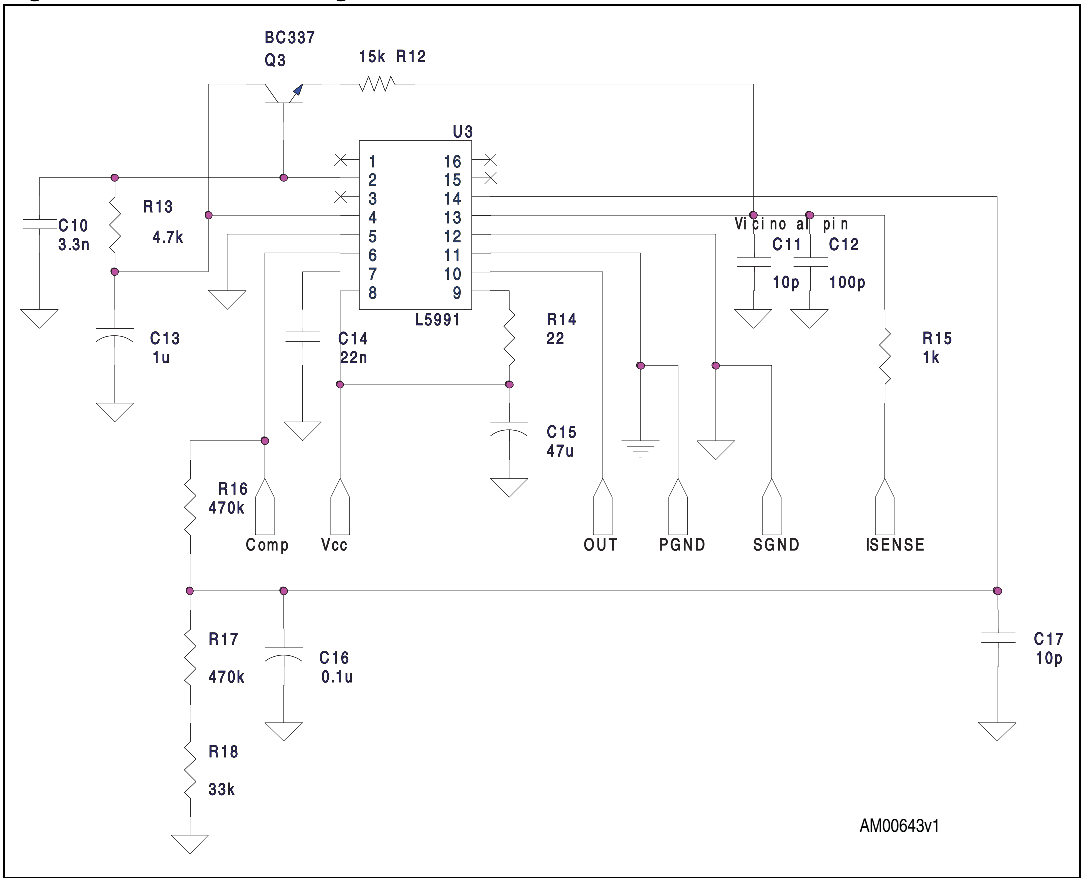


Figure 2. Schematic diagram 2/2



2 Revision history

Table 1. Document revision history

Date	Revision	Changes
30-June-2008	1	Initial release.